



cells



an Open Access Journal by MDPI

Photoreceptor Signaling in Plants under Environmental Stress

Guest Editors:

Prof. Dr. Suleyman Allakhverdiev

K.A. Timiryazev Institute of Plant Physiology RAS, 35
Botanicheskaya St., 12 7276
Moscow, Russia

Dr. Pavel Pashkovskiy

K.A. Timiryazev Institute of Plant Physiology, Russian Academy of Sciences, Botanicheskaya Street 35, 127276 Moscow, Russia

Deadline for manuscript submissions:
closed (25 March 2024)

Message from the Guest Editors

This Special Issue is devoted to recent advances and insights into photoreceptor signaling in plants and algae under various environmental stresses. It draws together multidisciplinary research focusing on the molecular mechanisms that regulate plant responses to stress conditions and the crucial role of photoreceptors in such adaptive strategies.

This Special Issue encompasses studies on how plant cells utilize photoreceptor signaling to modulate growth, development, and survival in challenging environments.

This Special Issue will explore the role of the interplay between photoreceptor signaling and plant hormonal pathways and the effect of light quality on plant stress resistance, in addition to including studies into the genetic and epigenetic aspects of photoreceptor signaling on the intricate regulatory networks that dictate plant adaptation to environmental stressors.

Keywords:

- photoreceptor signaling
- adaptive strategies
- plants and algae
- abiotic and biotic stresses



mdpi.com/si/175043

Special Issue



cells



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities,
6-145 Jackson Hall, 321 Church St
SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation
Centre, The University of
Copenhagen, Copenhagen,
Denmark

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Cell Biology*) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Contact Us

Cells Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](#)